

# General Environmental Incident Summary

**Incident:** 3206      **Date/Time Notice:** 2/20/2014      2:45 P      **DEM Incident No:**  
**Responsible Party:** Red Trail Energy LLC  
**Date Incident:** 2/20/2014      **Time Incident:** 0640      **Duration:** 1 hours  
**County:** Stark      **Twp:** 139      **Rng:** 92      **Sec:** 4      **Qtr:** NE SE SW  
**Lat:** 46.87802      **Long:** -102.30280      **Method:** Interpolation from map  
**Location Description:** Red Trail Energy, Richardton Ethanol Plant. 3682 N Dakota 8, Richardton, ND 58652

**Submitted By:** Tyler Mock      **Affiliation:** Lab/Environmental Manager  
**Address:** 3682 N Dakota 8  
**City:** Richardton      **State:** ND      **Zip:** 58652

## Received By:

**Contact Person:** Tyler Mock  
3682 N Dakota 8  
Richardton, ND 58652

**Distance Nearest Occupied Building:** 2000 Feet

**Type of Incident:** Pipeline Leak

**Description of Released Contaminant:** 3% Sodium hydroxide Cleaning Solution. Measured at a PH of 10

**Volume Spilled:** 6109.00 gallons

**Ag Related:** No

**EPA Extremely Hazardous Substance:** No

**Reported to NRC:** Unknown

## Cause of Incident:

It was determined that during the Cleaning of Fermenter 4, a leak was detected above the fermenter where CIP is introduced to the tank. A 3-4 inch line powered by a High Pressure pump failed filling a tank on site and leaked on site on to facility soil. Cause was found to be normal wear and tear of line.

All liquids were spilled on facility property.

## Risk Evaluation:

Low risk, Low concentration cleaning solution on facility soil

**# of Fatalities:** 0      **# of Injuries:** 0      **Affected Medium:** 03 - soil

## Potential Environmental Impacts:

None. All fluids contained within facility boundaries are being handled on location.

## Action Taken or Planned:

At 8:00 AM the CIP spill began getting cleaned up by operators. Using hot water, CIP was contained outside the process building by spraying the CIP into containment and bringing it into the building. The spill was all contained on site on facility soil.. Further down the drainage ditch a containment earthen dike was built in front of possible drainage points to RTE's storm water retention pond. Spill cleanup and containment kits were used to stop spillage into RTE's containment pond. A pump has been

installed and put in place to pump out the spill and bring back into the plant to reintroduce it to the plant where it can be treated and contained. Water has been introduced at spill site to dilute solution and recover back into the facility. Soil will eventually be cleared and held on site.

**Wastes Disposal Location:** Within the plant the solution can be treated, diluted and re-used on site.

**Agencies Involved:**

### **Updates**

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**Date:** 2/20/2014    **Status:** Reviewed - No Action Required

**Author:** Roberts, Kris

**Updated Volume:**

#### **Notes:**

Release of 3% sodium hydroxide solution is contained completely inside the ethanol plant boundaries. Cleanup was ongoing at the time of the telephone report to NDDoH. The gravel below the portion of the fermenter that is outside the building was being washed and diluted with clean water. Description of cleanup activities and the cleaning solution are adequate to determine that no further followup is needed in this incident.